



Customer:

Issued Date: Jun. 30, 2009 Model No.: V260B1-P15

**Approval** 

# TFT LCD Approval Specification

MODEL NO.: V260B1-P15

Approved by:								
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# **REVISION HISTORY**

Version	Date	Page (New)	Section	Description
	Date Jun. 30, 2009	Page (New)		Approval Specification was first issued.



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## 1. GENERAL DESCRIPTION

#### 1.1 OVERVIEW

V260B1- P15 is a 26-inch TFT LCD cell with driver ICs and a 1-ch LVDS interface. The product supports 1366 x 768 WXGA mode and can display true 16.2M colors (6-bits+FRC colors). The backlight unit is not built in.

#### 1.2 CHARACTERISTICS

CHARACTERISTICS ITEMS	SPECIFICATIONS
Screen Diagonal [in]	26.0
Pixels [lines]	1366×768
Active Area [mm]	575.769×323.712
Sub -Pixel Pitch [mm]	0.1405(H)×0.4215(V)
Pixel Arrangement	RGB vertical stripe
Weight [g]	TYP. 870
Physical Size [mm]	592(W) x 339.8(H) x 1.84(D) Typ.
Display Mode	TN, Normally White
Contrast Ratio	800:1 Typ. (Typical value measured at CMO's module)
Glass thickness (Array/CF) [mm]	0.7 / 0.7
Viewing Angle (CR>20)	+80/-80(H),+80/-70(V) Typ. (Typical value measured at CMO's module)
Color Chromaticity	R=(0.648, 0.331) G=(0.265,0.595) B=(0.147,0.094) W=(0.311,0.341) *Please refer to "color chromaticity" on p.16
Cell Transparency [%]	6%Typ. (Typical value measured at CMO's module)
Polarizer (CF side)	Anti-glare coating, 587.4(H) x 335.2(w). Hardness: 3H
Polarizer (TFT side)	587.4(H) x 335.2(w).

#### 1.3 MECHANICAL SPECIFICATIONS

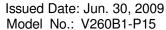
Item	Min.	Тур.	Max.	Unit	Note
Weight		870		g	
I/F connector mounting position	The mounting in the screen center		connector makes is the horizontal.		(2)

Note (1) Please refer to the attached drawings for more information of front and back outline dimensions.

(2) Connector mounting position









## 2. ABSOLUTE MAXIMUM RATINGS

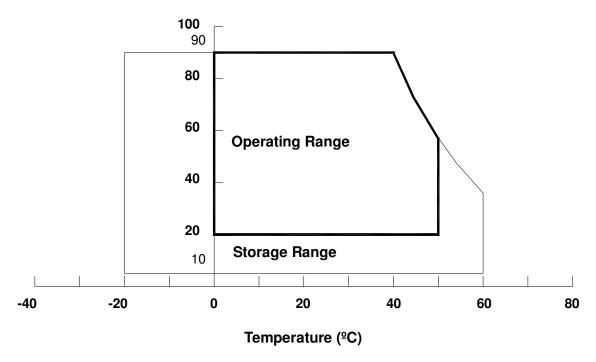
#### 2.1 ABSOLUTE RATINGS OF ENVIRONMENT (BASED ON CMO MODULE V260B1-L15)

Item	Symbol	Va	lue	Unit	Note	
item	Symbol	Min.	Max.	Offic	INOLE	
Storage Temperature	T <sub>ST</sub>	-20	+60	ōC	(1), (3)	
Operating Ambient Temperature	T <sub>OP</sub>	0	50	ōC	(1), (2), (3)	
Altitude Operating	A <sub>OP</sub>	0	5000	М	(3)	
Altitude Storage	A <sub>ST</sub>	0	12000	М	(3)	

Note (1) Temperature and relative humidity range is shown in the figure below.

- (a) 90 %RH Max. (Ta  $\leq$  40  ${}^{\circ}$ C).
- (b) Wet-bulb temperature should be 39  $^{\circ}$ C Max. (Ta > 40  $^{\circ}$ C).
- (c) No condensation..

# **Relative Humidity (%RH)**



- Note (2) The maximum operating temperature is based on the test condition that the surface temperature of display area is less than or equal to 65 °C with LCD module alone in a temperature controlled chamber. Thermal management should be considered in your product design to prevent the surface temperature of display area from being over 65 °C. The range of operating temperature may degrade in case of improper thermal management in your product design.
- Note (3) The rating of environment is base on LCD module. Leave LCD cell alone, this environment condition can't be guaranteed. Except LCD cell, the customer has to consider the ability of other parts of LCD module and LCD module process.



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# 2.2 ABSOLUTE RATINGS OF ENVIRONMENT (OPEN CELL)

Storage Condition: With shipping package.

Storage temperature range : 25±5 °C Storage humidity range: 50±10%RH

Shelf life: a month

#### 2.3 ELECTRICAL ABSOLUTE RATINGS

#### 2.3.1 TFT LCD MODULE

Itom	Symbol	Va	lue	Unit	Note		
Item	Syllibol	Min.	Max.	Offic	Note		
Power Supply Voltage	Vcc	-0.3	13.0	V	(1)		
Input Signal Voltage	VIN	-0.3	3.6	V	(1)		

- Note (1) Permanent damage to the device may occur if maximum values are exceeded. Functional operation should be restricted to the conditions described under normal operating conditions.
- Note (2) No moisture condensation or freezing.
- Note (3) The control signals includes Backlight On/Off Control, Internal PWM Control and External PWM Control.



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# 3. ELECTRICAL CHARACTERISTICS

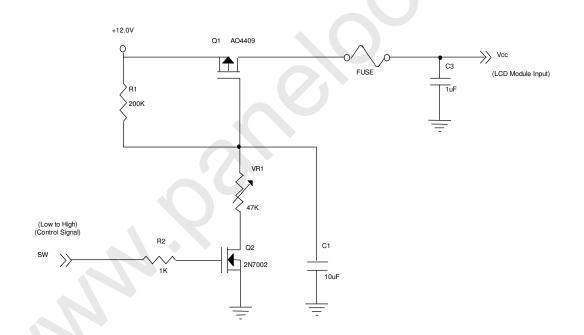
#### 3.1 TFT LCD OPEN CELL

 $Ta = 25 \pm 2 \,{}^{\circ}C$ 

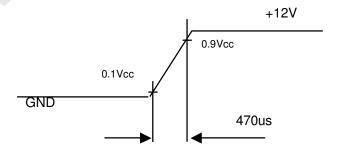
Parameter		Symbol		Value		Unit	Note	
1 drameter			Syllibol	Min.	Тур.	Max.	Oill	NOLE
Power Su	pply Voltage		$V_{CC}$	11.4	12.0	12.6	٧	(1)
Power Su	pply Ripple Vo	ltage	$V_{RP}$	_	_	300	mV	
Rush Cur	rent		I <sub>RUSH</sub>			3.0	Α	(2)
		White			0.2	0.25	Α	
Power Su	pply Current	Black	I <sub>cc</sub>		0.5	0.55	Α	(3)
		Vertical Stripe		_	0.4	0.45	Α	
L)/DC	Differential In Threshold Vo		$V_{LVTH}$	+100		_	mV	
LVDS Interface	Differential In Threshold Vo		$V_{LVTL}$	_	_	-100	mV	
	Common Inpu	ut Voltage	$V_{LVC}$	1.125	1.25	1.375	V	
	Terminating F	Resistor	$R_T$	_	100		ohm	
CMOS	Input High Th	reshold Voltage	V <sub>IH</sub>	2.7	_	3.3	V	
interface	Input Low Thi	reshold Voltage	$V_{IL}$	0		0.7	V	

Note (1) The module should be always operated within above ranges.

#### Note (2) Measurement Conditions:



## Vcc rising time is 470us



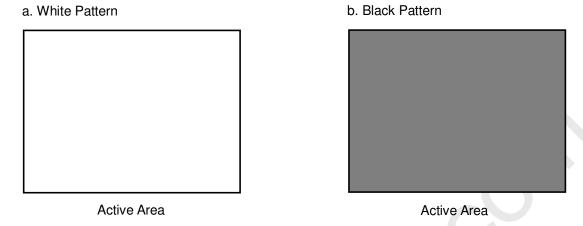


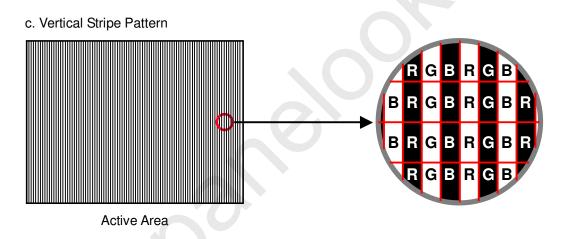
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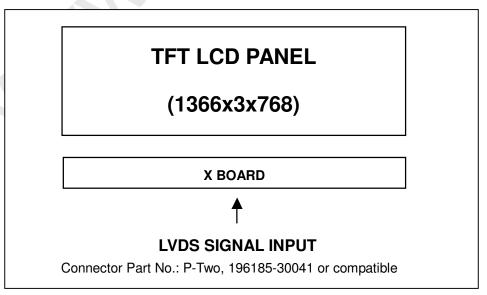
Note (3) The specified power supply current is under the conditions at Vcc = 12 V, Ta = 25  $\pm$  2  $^{\circ}$ C, f<sub>v</sub> = 60 Hz, whereas a power dissipation check pattern below is displayed.





#### 4. BLOCK DIAGRAM

#### 4.1 TFT LCD OPEN CELL





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# 5. INPUT TERMINAL PIN ASSIGNMENT

#### **5.1 TFT LCD MODULE**

#### **CNF1 Connector Pin Assignment**

Pin No.	Symbol	Description	Note
1	VCC	Power supply: +12V	
2	VCC	Power supply: +12V	
3	VCC	Power supply: +12V	
4	VCC	Power supply: +12V	
5	GND	Ground	
6	GND	Ground	
7	GND	Ground	
8	GND	Ground	
9	SELLVDS	Select LVDS data format	(2)
10	NC	No connection	(3)
11	GND	Ground	
12	RX0-	Negative transmission data of pixel 0	
13	RX0+	Positive transmission data of pixel 0	
14	GND	Ground	
15	RX1-	Negative transmission data of pixel 1	
16	RX1+	Positive transmission data of pixel 1	
17	GND	Ground	
18	RX2-	Negative transmission data of pixel 2	
19	RX2+	Positive transmission data of pixel 2	
20	GND	Ground	
21	RXCLK-	Negative of clock	
22	RXCLK+	Positive of clock	
23	GND	Ground	
24	RX3-	Negative transmission data of pixel 3	
25	RX3+	Positive transmission data of pixel 3	
26	GND	Ground	
27	NC	No connection	(3)
28	NC	No connection	(3)
29	GND	Ground	
30	GND	Ground	

Note (1) CN2 Connector Part No.: P-TWO(禾昌) 196185-30041 or Equal.

Note (2) Ground or OPEN: Normal, High: JEIDA LVDS format

Please refer to 5.3 LVDS INTERFACE (Page 11)

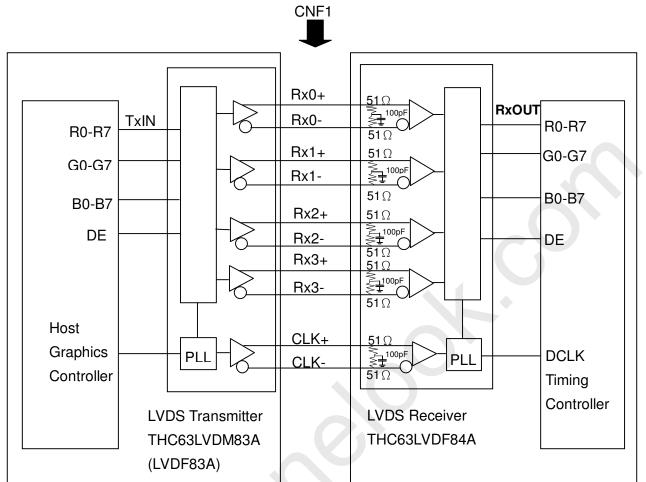
Note (3) Reserved for internal use. Please leave it open.





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# 5.2 BLOCK DIAGRAM OF INTERFACE



R0~R7 : Pixel R Data G0~G7 : Pixel G Data B0~B7 : Pixel B Data

DE : Data Enable Signal

Note (1) The system must have the transmitter to drive the module.

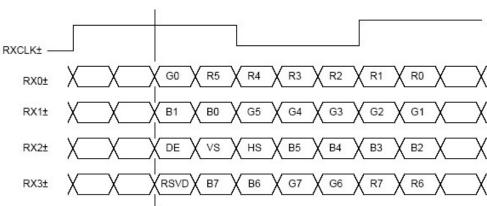
Note (2) LVDS cable impedance shall be 50 ohms per signal line or about 100 ohms per twist-pair line when it is used differentially.



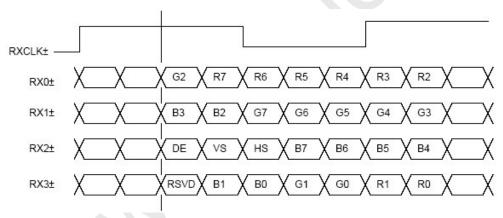
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#### **5.3 LVDS INTERFACE**

# $SELLVDS = L or Open \quad (VESA)$



#### SELLVDS = H (JEIDA)



R0~R7: Pixel R Data (7; MSB, 0; LSB)

G0~G7: Pixel G Data (7; MSB, 0; LSB)

B0~B7: Pixel B Data (7; MSB, 0; LSB)

DE: Data enable signal

Notes(1) RSVD(reserved)pins on the transmitter shall be "H" or "L".





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## **5.4 COLOR DATA INPUT ASSIGNMENT**

The brightness of each primary color (red, green and blue) is based on the 8-bit gray scale data input for the color. The higher the binary input, the brighter the color. The table below provides the assignment of color versus data input.

												Da	ata :	Sigr	nal										
	Color				Re	ed							G	reer	1						Bli	ue			
		R7	R6	R5	R4	R3	R2	R1	R0	G7	G6	G5	G4	G3	G2	G1	G0	В7	В6	B5	В4	ВЗ	B2	В1	ВС
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Green	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
Basic	Blue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
Colors	Cyan	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Magenta	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	Yellow	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	White	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Red(0) / Dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(1)	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gray	Red(2)	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scale	:	:	:	:	:	:	:	:	:	:		:	:	:	:	:	:	:	:	:	:	:	:	:	:
Of	:	:	:	:	:	:	:	:	:	:	:	6.	•	:	:	:	:	:	:	:	:	:	:	:	:
Red	Red(253)	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
rieu	Red(254)	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(255)	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Green(0) / Dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Green(1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Gray	Green(2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Scale	:	:	:	:		:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Of	:	4	:	:		:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Green	Green(253)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0
Green	Green(254)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
	Green(255)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	Blue(0) / Dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Blue(1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Grov	Blue(2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Gray	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Scale Of	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Oi Blue	Blue(253)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1
Diue	Blue(254)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0
	Blue(255)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1

Note (1) 0: Low Level Voltage, 1: High Level Voltage



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## 6. INTERFACE TIMING

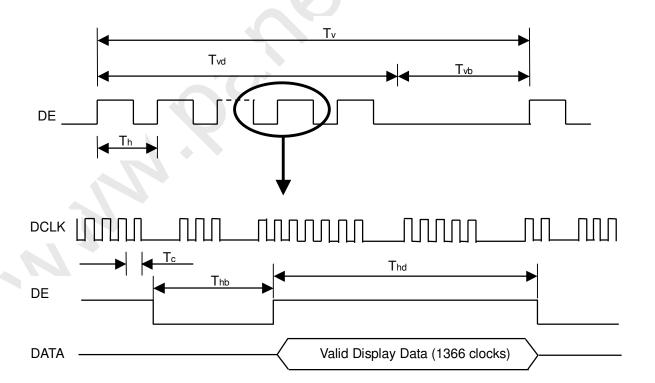
#### **6.1 INPUT SIGNAL TIMING SPECIFICATIONS**

The input signal timing specifications are shown as the following table and timing diagram.

			U		0 0		
Signal	Item	Symbol	Min.	Тур.	Max.	Unit	Note
	Frequency	1/Tc	60	76	82	MHz	
LVDS Receiver Clock	Input cycle to	Trcl			200	nc	
	cycle jitter	1101	_	_	200	ps	
LVDS Receiver Data	Setup Time	Tlvsu	600	_	_	ps	
LVD3 Neceivei Data	Hold Time	Tlvhd	600	_	_	ps	
	Frame Rate	Fr5	47	50	53	Hz	
	riame nate	Fr6	57	60	63	Hz	
Vertical Active Display Term	Total	Tv	778	806	888	Th	Tv=Tvd+Tvb
	Display	Tvd	768	768	768	Th	-
	Blank	Tvb	10	38	120	Th	-
	Total	Th	1442	1560	1936	Тс	Th=Thd+Thb
Horizontal Active Display Term	Display	Thd	1366	1366	1366	Тс	-
	Blank	Thb	76	194	570	Тс	-

Note (1) Since this module is operated in DE only mode, Hsync and Vsync input signals should be set to low logic level. Otherwise, this module would operate abnormally.

## INPUT SIGNAL TIMING DIAGRAM

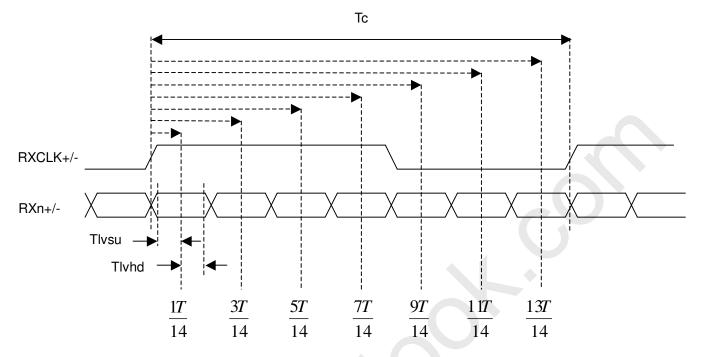






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# LVDS RECEIVER INTERFACE TIMING DIAGRAM

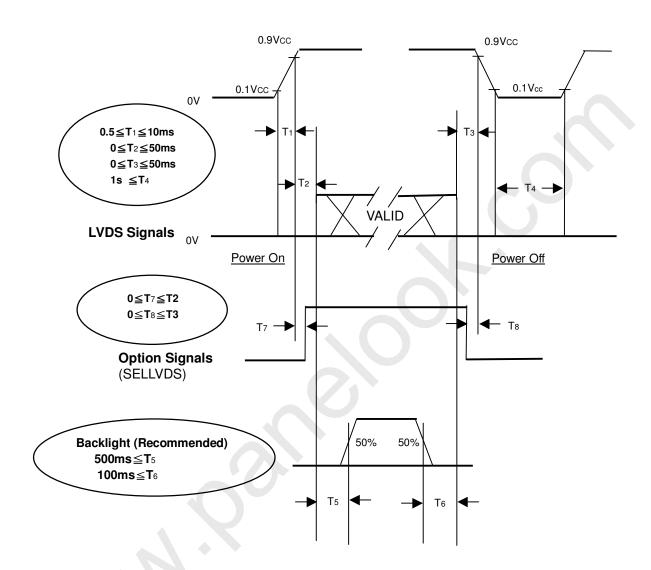




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#### **6.2 POWER ON/OFF SEQUENCE**

To prevent a latch-up or DC operation of LCD module, the power on/off sequence should be as the diagram below.



Power ON/OFF Sequence

- Note (1) The supply voltage of the external system for the module input should follow the definition of Vcc.
- Note (2) Apply the lamp voltage within the LCD operation range. When the backlight turns on before the LCD operation or the LCD turns off before the backlight turns off, the display may momentarily become abnormal screen.
- Note (3) In case of Vcc is in off level, please keep the level of input signals on the low or high impedance. If T2<0,that maybe cause electrical overstress failure.
- Note (4) T4 should be measured after the module has been fully discharged between power off and on period.
- Note (5) Interface signal shall not be kept at high impedance when the power is on.





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# 7. OPTICAL CHARACTERISTICS

#### 7.1 TEST CONDITIONS

Item	Symbol	Value	Unit
Ambient Temperature	Ta	25±2	°C
Ambient Humidity	Ha	50±10	%RH
Supply Voltage	$V_{CC}$	12.0	V
Input Signal	According to typical v	alue in "3. ELECTRICAL (	CHARACTERISTICS"
Lamp Current ( High side )	lμ	$7.5$ mA $\pm 0.5$	mA
Oscillating Frequency (Inverter)	$F_W$	58±3	KHz
Frame rate		60	Hz

#### 7.2 OPTICAL SPECIFICATIONS

The relative measurement methods of optical characteristics are shown as below. The following items should

be measured under the test conditions described in 7.1 and stable environment shown in Note (5)

J <u>e measureu u</u>	inder the tes	COHUILIONS	described in 7.1 and stable er	IVIIOIIIII	ent snown	III INOLE	= (3).	
Item		Symbol	Condition	Min.	Тур.	Max.	Unit	Note
Color Chromaticity	Red	Rcx	θ <sub>x</sub> =0°, θ <sub>Y</sub> =0° Viewing Angle at Normal Direction Standard light source "C"		0.648		-	(0),(5)
	neu	Rcy			0.331		-	
	Green	Gcx			0.265		-	
	Green	Gcy			0.595		-	
	ty Blue	Bcx			0.147	_		
	Dide	Всу			0.094			
	White	Wcx			0.311			
	VVIIILE	Wcy			0.341		-	
Center Transmittance		T%	$\theta_x=0^\circ,  \theta_Y=0^\circ$	-	6	-	%	(1),(7)
Contrast Ratio		CR	with CMO module		800	-		(1),(3)
Response Time		T <sub>R</sub>	$\theta_x=0^\circ, \ \theta_Y=0^\circ$	-	3	-	ms	(4)
		$T_{F}$	with CMO Module@60Hz	-	5	-	ms	(4)
White Variation		δW	$\theta_x$ =0°, $\theta_Y$ =0° with CMO module	-	-	1.3	-	(1),(6)
Viewing Angle	Horizontal	$\theta_{x}$ +	CR≥10 With CMO module	-	80	-	Deg.	(1),(2)
		$\theta_{x}$ -		-	80	-		
	Vertical	$\theta_{Y}$ +		-	80	-	Deg.	
		θ <sub>Y</sub> -		-	70	-		

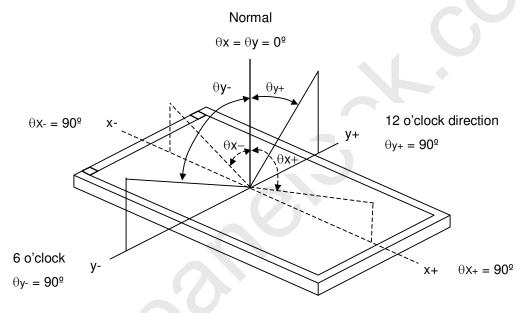




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- Note (0) Light source is the standard light source "C" which is defined by CIE and driving voltage are based on suitable gamma voltages. The calculating method is as following:
  - Measure Module's and BLU's spectrum. White is without signal input and R,G,B are with signal input. BLU(for V260B1-L15) is supplied by CMO.
  - 2. Calculate cell's spectrum.
  - 3. Calculate cell's chromaticity by using the spectrum of standard light source "C".
- Note (1) Light source is the BLU which is supplied by CMO and driving voltage are based on suitable gamma voltages.
- Note (2) Definition of Viewing Angle ( $\theta x$ ,  $\theta y$ ):

Viewing angles are measured by EZ-Contrast 160R (Eldim)



## Note (3) Definition of Contrast Ratio (CR):

The contrast ratio can be calculated by the following expression.

Contrast Ratio (CR) = L255 / L0

L255: Luminance of gray level 255

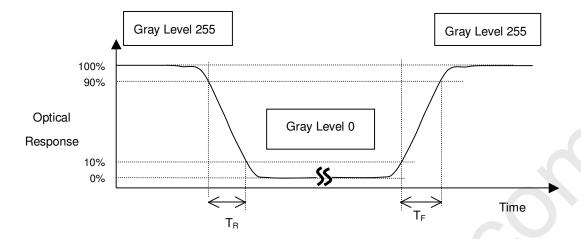
L 0: Luminance of gray level 0

CR = CR (5), where CR (X) is corresponding to the Contrast Ratio of the point X at the figure in Note (6).



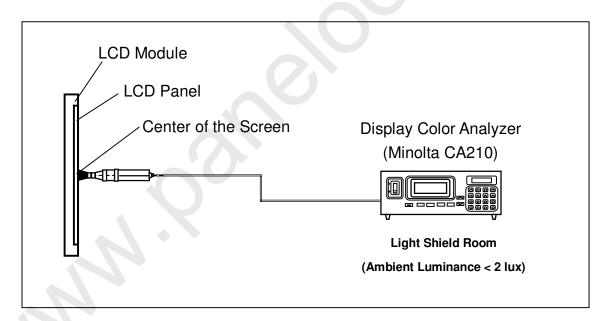
**Approval** 

Note (4) Definition of Response Time (T<sub>R</sub>, T<sub>F</sub>):



## Note (5) Measurement Setup:

The LCD module should be stabilized at given temperature for 1 hour to avoid abrupt temperature change during measuring. In order to stabilize the luminance, the measurement should be executed after lighting Backlight for 1 hour in a windless room.



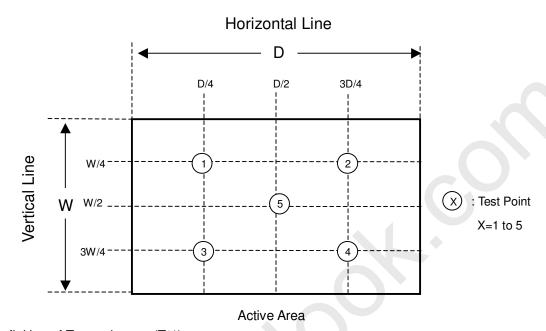


**Approval** 

Note (6) Definition of White Variation ( $\delta W$ ):

Measure the luminance of gray level 255 at 5 points

 $\delta W = Maximum \left[L \ (1), \ L \ (2), \ L \ (3), \ L \ (4), \ L \ (5)\right] \ / \ Minimum \left[L \ (1), \ L \ (2), \ L \ (3), \ L \ (4), \ L \ (5)\right]$ 



Note (7) Definition of Transmittance (T%) :

Module is without signal input.



**Approval** 

#### 8. PRECAUTIONS

#### 8.1 ASSEMBLY AND HANDLING PRECAUTIONS

- (1) Do not apply rough force such as bending or twisting to the product during assembly.
- (2) To assemble backlight or install module into user's system can be only in clean working areas. The dust and oil may cause electrical short or worsen the polarizer.
- (3) It's not permitted to have pressure or impulse on the module because the LCD panel will be damaged.
- (4) Always follow the correct power sequence when the product is connecting and operating. This can prevent damage to the CMOS LSI chips during latch-up.
- (5) Do not pull the I/F connector in or out while the module is operating.
- (6) Use a soft dry cloth without chemicals for cleaning, because the surface of polarizer is very soft and easily scratched.
- (7) It is dangerous that moisture come into or contacted the product, because moisture may damage the product when it is operating.
- (8) High temperature or humidity may reduce the performance of module. Please store this product within the specified storage conditions.
- (9) When ambient temperature is lower than 10°C may reduce the display quality. For example, the response time will become slowly.

#### **8.2 SAFETY PRECAUTIONS**

- (1) If the liquid crystal material leaks from the panel, it should be kept away from the eyes or mouth. In case of contact with hands, skin or clothes, it has to be washed away thoroughly with soap.
- (2) After the product's end of life, it is not harmful in case of normal operation and storage.



**Approval** 

## 9. PACKAGING

#### 9.1 PACKING SPECIFICATIONS

- (1) 15 LCD TV Panels / 1 Box
- (2) Box dimensions: 804 (L) X 565 (W) X 363 (H)
- (3) Weight: approximately 25 Kg (15 panels per box)

#### 9.2 PACKING METHOD

Figures 9-1 and 9-2 are the packing method

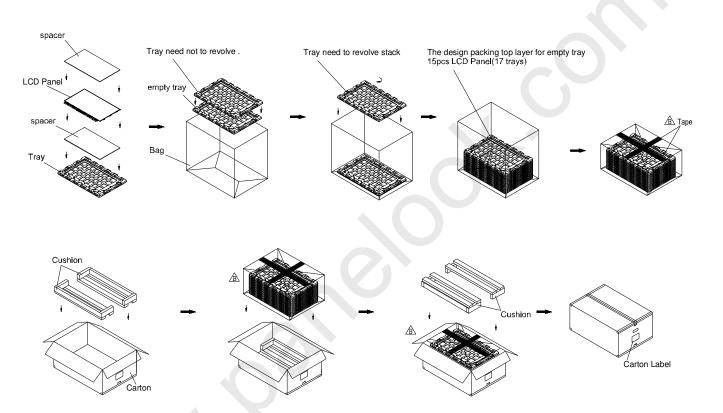


Figure.9-1 packing method



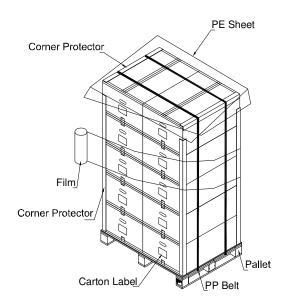
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**Approval** 

# Sea Transportation

Corner Protector:L1650\*50\*50mm L800\*50\*50mm Pallet:L1150\*W840\*H140mm Pallet Stack:L1150\*W840\*H1960mm Gross:265kg



# Air Transportation

Corner Protector:L1250\*50\*50mm L800\*50\*50mm Pallet:L1150\*W840\*H140mm Pallet Stack:L1150\*W840\*H1597mm Gross:215kg

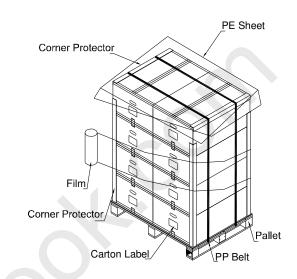


Figure.9-2 packing method





**Approval** 

# 10. REGULATORY STANDARDS

## **10.1 SAFETY**

Regulatory	Item	Standard	
	UL	UL 60950-1: 2003	
Information Technology equipment	cUL	CAN/CSA C22.2 No.60950-1-03	
	CB	IEC 60950-1:2001	
	UL	UL 60065: 2003	
Audio/Video Apparatus	cUL	CAN/CSA C22.2 No.60065-03	
	CB	IEC 60065:2001	



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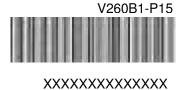
Issued Date: Jun. 30, 2009 Model No.: V260B1-P15

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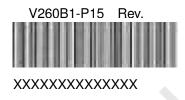
## 11. DEFINITION OF LABELS

#### 11.1 OPEN CELL LABEL

The barcode nameplate is pasted on each open cell as illustration for CMO internal control.



The barcode nameplate is pasted on Protector Film of each open cell as illustration for CMO internal control.



#### 11.2 CARTON LABEL

The barcode nameplate is pasted on each box as illustration, and its definitions are as following explanation



(a) Model Name: V260B1-P15 (b) Carton ID: CMO internal control

(c) Quantities: 15



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Issued Date: Jun. 30, 2009 Model No.: V260B1-P15

# **Approval**

# 12. Mechanical Drawing

